

MEMORANDUM**SRT-4J****DATE :** August 23, 2000**SUBJECT:** Review of the QAPP for the Pilot Testing at Waukegan Manufactured Gas and Coke Plant site in Waukegan, IL.**FROM:** L. Finkelberg, Chemist
Field Services Section (FSS)**TO:** Kevin Adler, RPM

I have reviewed the QAPP for the Pilot Testing at Waukegan Manufactured Gas and Coke Plant site in Waukegan, IL. The subject QAPP was received by FSS on July 06, 2000 (Log-in # 2624).

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The QAPP needs to be revised for the following:

1. Section 1.4 of QAPP should address the name of the laboratory which will be performed analytical services for the project.
2. Section 1.6 of QAPP have discussed the seven steps in the DQO process. The generic information provided in this section is not acceptable. The discussion should outline the **project specific DQO process to provide a logical framework for planning multiple field investigations (study).**
3. Fig.2.1 of QAPP should be revised to include US EPA Quality Assurance Reviewer.
4. Section 8.2.6 references Table 3.1 and 3.2 for the acceptance criteria for the pre-digestion spikes. The reference is incorrect, because Table 3.1 is provided for laboratory precision control limits. Please correct.
5. SOPs deficiencies.

A. There are following discrepancies between tables provided in the QAPP and SOPs:

- a. Table 7.1 references Analytical Method 310.1 to measure of Alkalinity in water. The SOP references Method 2320 from Standard Methods for the Examination of Water.
- b. The laboratory accuracy and precision control limits listed in the QAPP Tables 8.1 and 3.2 are inconsistent with the information from SOPs. Please check.
- c. The holding time criteria for Nitrate by Method 300 is 24 hours. The SOP and Table 4.1 listed the criteria as 48 hours. Please check.

B. Most of the provided SOPs are missing the following:

- a. List of the parameters to be measured.
- b. Range of Measurement. Working Linear Range.
- c. Limits of Detection.
- d. Quality Control Requirements (limits) for all internal and external audits.

- e. SOP for Ammonia determination is missing the Holding Time criteria.
- f. SOP for Thiocyanate determination is missing the Holding Time Criteria .